

THE TRI-STATE AMATEUR RADIO SOCIETY



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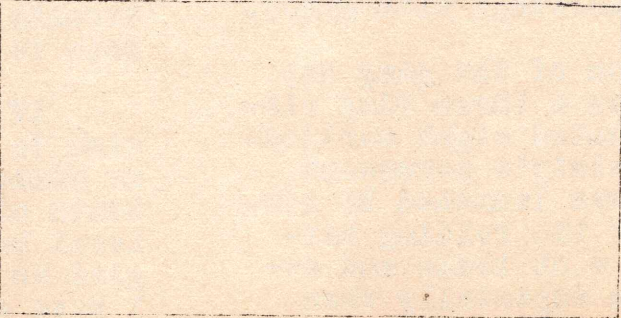
CONTENTS

Editorial	2
As I See it, W9AIN	2
Your Secretary, W9BBC	2
The Franklin Osc	2
W9NEC	3
Jerry's Five	4
Mobile News & Views	4
W4LLR	5
ARRL Bulletins	5
Hamfest	5
Your EC, W9AZU	6
Field Day	6
Above 50 Mc, W9UIA	6
Station Activities	7
W9BBC	7
Emergency, W9VNM	8
Ten Meter Forecast	8
W9MDX	8
Next Meeting	9
I/C Ratio, W9ERN	9
Ten Meter Mobile	10
W9MDX	10
How's Your DX?, W9QLW	10

TRI-STATE SPARKIES,
Tri-State Amateur Radio Society,
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1321 South Governor Street,
Evansville, 13, Indiana.

Meeting 28 May 48
Don't forget

TO



Well fellows, here it is. I hope you will enjoy reading your new magazine, TS. It was a lot of work, but if the majority like and support this magazine, it will be worth all the added work. I would like to get your reaction. If you like or dislike it, please send me a letter or postcard giving your views.

First, I would like to thank persons submitting articles for publication in TS. If at any time you feel you have a good idea, write it up and send it to me for publication. It may be either of a technical nature or a light drama of our hero, saving his community from a disaster. It's up to all of you for the articles. Get your's rolling, NOW. Resolve that you will have at least one article published this year in TS. Send reports of DX to the DX Editor, and reports of VHF activities to the VHF Editor, ect. Send any information as to what you are doing--new antenna, transmitter, ect. If you have a pet gripe or peve, send a letter to "Letters to the Editor". Space will be made available to all officers, directors and committee chairmen for any information they might like to pass on the general membership.

For those interested, advertising space is available at a cost of seventy-five cents per column inch. So fellows it's up to you to keep things rolling, get your articles in for publication, NOW.

CCM.

"AS I SEE IT"

By Fay Gehres, W9AIN, Pres. TARS

Mid May finds the Society ready to shift into high gear for outdoor activity. With Field Day only a month away the portable equipment is being set up and tested, and from all indications the score in this territory will increase for '48. Treasure hunts are also in order. Both Owensboro and the Tell City-Canelton gangs are moving so its "Hi-Time" we start here. Think it over, we have competition up east. Then to its picnic time again and from last years experience this is a must. Nothing can replace these "all family" meetings with games.

I heard on of the gang say the auction was a three ring circus, but I counted eight auctioneers. The Society's permanent housing fund was launched by several pieces of the folding variety. Nobody went broke and everyone had fun especially when one auctioneer yells going one, going two, going three, going four, going five-----

"YOUR SECRETARY"

By Vic Chamberlin, W9BBC.

I wish to take this opportunity on behalf of the Society to welcome the new members, W9MRR, W9ERN, and K9AAD. Hope you enjoy our Society and help us make it a worthwhile organization.

I would appreciate any member who has change of address to notify me so I can make the correction on the list. I have word from G Wiley that Bud Radio will furnish free of charge, badges with your call on it, for use at Society meetings, ect. We still have a supply of membership stationery on hand for sale to Society members.

If you have any news you wish to get in TS or QST, mail or phone it to me before the tenth of the month. Any of the local ham parts dealers will be glad to take any news items also. I have endeavored very hard this month for news and believe you me, "Taint-Easy", McGee.

INTRODUCING THE FRANKLIN OSCILLATOR

By Paul Robbiano, W9NEC ex W6PKM.

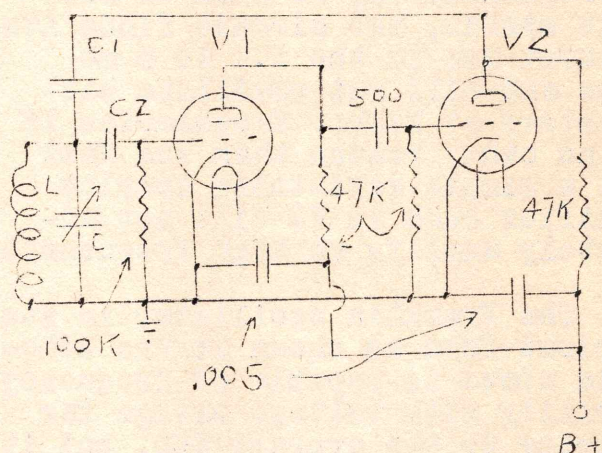
A spin of the receiver dial over any of the cw bands will usually reveal a great number of "bloopy" and "chirpy" signals which seem typical of the average VFO. While it is true that many such signals may be blamed on hastily modified surplus equipment never intended for cw work, a great many others are the result of hastily thrown together ECO's.

Just what causes "chirpy" or "bloopy" notes in the average VFO is a problem meriting careful study, since there are plenty of excuses a vacuum tube and an L-C can find for acting belligerent when turned loose in any of our ham bands.

Even under ideal laboratory conditions the design of an ECO, which has become the standard VFO for amateur use, presents many problems. First of all a good voltage regulated power supply is mandatory for good results. Then comes the requirement of an extremely high C tank circuit, a parallel resonant circuit possessing in many cases an effective capacity several hundred times greater than the tube inter-electrode capacities which may act to change the resonant frequency of the tank circuit. The idea behind this circuit feature is to concentrate so much capacity in the resonant circuit itself that tube electrode capacities appearing across the tank circuit will be a negligible portion of the total tank capacity. This being the case, one might expect that changes in tube inter-electrode capacities with heating and so on would have a minor effect on oscillator frequency. To some extent this is true, and if good ECO stability is desired a high C tank circuit is a must. This rule of design must also be followed in all other VFO circuits popular in

amateur circles. Various means are used to obtain high C, and anything from old broadcast condensers to relatively expensive zero temperature coefficient fixed condensers may be found in the usual VFO. The fact that high C has preached to the ham fraternity these many years as a criterion for oscillator stability, might mean that quite a bit of interest could be aroused by introducing a relatively simple oscillator of extreme frequency stability which operates with an extremely low C tank circuit.

Such an oscillator has innocently appeared many years in the ARRL Handbook labeled "The Franklin Master-Oscillator". A schematic of this oscillator circuit in its simplest form is shown below.



Voltage of proper phase to maintain oscillation is obtained from the output of a simple resistance coupled amplifier triode V2. In fact the oscillator may be looked upon as a two stage amplifier which is intentionally coaxed into controlled overall oscillation, by the feedback capacitor C1. The frequency of oscillation is then controlled by the tank circuit LC. For best results and greatest stability this tank circuit is low C, about 70 mmfd or so to tune to 3.5 mc. Any attempt to increase this tank capacity appreciably will result in a mod-

Franklin Oscillator, Cont'd.

ulated note and eventually lack of oscillation.

Typical values for C1 and C2 range from 1 mmfd to 5 mmfd, the smallest possible values that will maintain oscillation will give the best frequency stability. Herein lies the "tale"!! Notice that the LC circuit is working with what amounts to almost no load!! Except for a 1 or 2 mmfd condenser, it is isolated from the oscillator tube. In sharp contrast to the ECO the Franklin oscillator achieves remarkable stability with a conventional low C tank circuit by extreme isolation from the oscillator tube rather than by heavy capacitive loading of the tank circuit.

The circuit shown will work with conventional double triode tubes such as the 6J6 or the 6SN7 at frequencies up to 5 mc or so. As it stands, the circuit finds its greatest use in the 3.5 to 5 mc range and will not oscillate satisfactory at higher frequencies if for no other reason than the fact that a simple resistance coupled amplifier such as V2 will not adequately amplify at high frequencies.

The Franklin oscillator in its simplest form as shown in the schematic above is capable of frequency stability with voltage change far superior to the average ECO, but it must be born in mind that it is not a power oscillator. Output voltage from the oscillator shown is from 3 to 5 volts, an amount sufficient to drive a 6AC7 class A amplifier. Although the idea of keying this oscillator hasn't as yet been fully exploited, the results so far, obtained by keying the cathode of the first triode, are very encouraging. An improved version of this same oscillator, utilizing some of the advantages of electron coupled power output has already been constructed in haywire form. Preliminary tests on this oscillator indicated a frequency change of 50 cycles or less at 3.7 mc with changes in

plate power supply voltage from 100 to 400 volts!!!!

A low power 80 meter exciter using this oscillator is now under construction. It is hoped that the finished unit will provide a truly simple VFO possessing frequency stability and keying characteristics approaching that of a good crystal oscillator all of this with a low C tank Circuit!

"THE SAGA OF JERRY'S FIVE"

or

"Why no Six Meter QSO"

As told to the Editor

All last month Jerry Craig, W9HGX was listening and calling CQ's on six meters every chance he got. But for some reason Jerry just couldn't hear or work anything. Then, it happened, he heard four or five W5's. He says to himself, boy, Jerry's in, or so he thought. So he tunes the band and all W5's are working someone, so he calls CQ. Yes someone answers his CQ. W9HGX, W9HGX, ect for about 50 times, then

this is W5G%\$#whooooosh. You guessed it, the band dropped out and no QSO. CQ CQ CQ 6 meters this is W9HGX. Still no QSO.

According to Dick Anderson's Sport column in the Press, Lefty Covert, W9KVE would be a good pitcher for the local Police ball club. I Guess Dick didn't see the phone-CW ball game at last years Society picnic at Camp PaHoka, where the CW men murdered the Covertites with him on the mound as "Chief Hurler", on then president Hatfield's (W9GFS) long double to drive in the winning runs.

VHF May QSO Party.....May 22-23
ARRL Field Day.....June 12--13
ARRL Code Tests...June 21, July 14
TARS Meeting.....May 28
"SWITCH TO SAFETY"

"MOBILE NEWS AND VIEWS"

By Jack Grimes, W4LLR

Most of the fellows who have tried mobile operating have developed a permanent case of "Mobileitis" and have made a mobile station a must. This column will be devoted to: 1 promoting and encouraging the construction and operation of mobile equipment. 2 reporting the activity and DX of various mobile stations. 3 presenting hints and kinks contributed by the fellows, including articles by members of the Society. 4 promoting the organization of an emergency mobile net to include fixed control stations. (With the Cooperation of the local EC).

Quite possibly there is more activity than most of the fellows realize. Mobile rigs operating at present include W9KMI and ANG of Mt Carmel, W4QDZ of Owensboro and W4LLR of Henderson. Rigs under construction include W9MJW and W4NJE. There are probably others, if so pardon us for no mention and let us know for next month's column. Eight rigs in operation and more under construction is really a swell start. Come on gang and lets make it at least 25 before the summer is over.

Emergency communication can be maintained over the entire Tri-State area under all conditions without being dependent on regular power. Another enjoyable mobile pastime is a group mobile outing--picking a destination some 50 or so miles distant for a picnic, and all units proceeding at a prearranged time by different routes and maintaining contact with each other all the way. The opportunities for skip and DX on 10 meters is as good with a mobile as with a fixed station. Very good results have been obtained from this area. According to W4ERH on mobile W5 got a 5-9 from a VK.

So fellows that is a mark to shoot at. Let's all pool our information and get on the ball. Let's have one of the country's finest mobile nets. The cost is low(it says here, Ed) and the results are good, so lets go GANG!!!! If you are mobile or intend to go mobile, please contact me in person, over the air, by twisted pair, or by mail with any or all information for this column.

ARRL Bulletin to all amateurs.

Effective immediately the band of 220 to 225 mc is opened by FCC for ham use replacing our temporary 235 to 240 mc band. However amateurs who wish to do so may continue to use 235 to 240 mc till 8 June 1948.

ARRL Bulletin to all amateurs.

You are reminded that regulations forbid amateur stations to handle third party international traffic except where special arrangements have been made. US Amateurs may handle such messages with Canada, Chile and Peru, provided they are of character that normally would not be sent by existing means of electrical communications. Traffic may be freely handled with outlying licensed by FCC, also with KZ5 stations and those operated by US military personnel anywhere in the world under regulations prescribed by military theatre commands. Amateurs who have occasion to handle overseas traffic should review information on international traffic handling on page 32 of April QST.

"STARVED ROCK HAMFEST"

The Starved Rock Radio Club will have a Hamfest 6 June 1948 near Starved Rock State Park, Illinois. A Gala event is planned. For further information contact W9MKS.

Articles are due by 15 June

"YOUR EMERGENCY COORDINATOR"

By Charles Long, W9AZU

I am anxious to get an emergency practice net functioning on 10 meters and all who are interested in participating drop me a line. For a start at least, it is planned to just report in to the Net on a predetermined schedule and then, if no traffic the fellows can proceed with rag chewing or whatever they desire. First practice "report in" session is planned for Tuesday 8th June at 9 PM. So all you fellows who are interested, please let me know so I can develop a list to call for a "report in" on the first and subsequent practice sessions.

I would very much appreciate your sending information on any portable or mobile transmitting equipment you may have which could be placed in operation on short notice in the event of a disaster or emergency. Such information as power, frequency and whether CW or fone should be listed. Also, don't forget to let me know if you have, or know of, any emergency power supply equipment such as gas engine driven generators, their rating, ect., which could be pressed into use if the emergency should arise.

It is well to know all these things before hand and be prepared rather than wait until the emergency arises and then hurry around trying to get the information and lose valuable time.

This portion of the Society's activity can succeed only to the extent that we all cooperate, so please give me a hand by turning in all such information as you have.

As a result of "skin effect" it is necessary to generalize the concept of resistance when dealing with radio frequencies by considering the resistance to be that quantity which when multiplied by the square of the current will give the energy dissipated in the circuit.

June 12th-13th ARRL "FD"

'Tis time now to plan for testing of all portable and emergency gear in this activity dedicated to preparedness. Clubs and groups will receive usual QST listings depending on number of transmitter groups in operation at the same time. Individual call listing will be given for participation on an individual basis of one or two(not more) operators.

Lets give our gear a tryout even just a 6L6 oscillator and eight watts and ten QSO's to prove that we can set it up on batteries or other emergency power and establish communication. Just as we might be called on to do if a big wind wiped out all the power lines! See April QST for complete information.

ARRL Bulletin to all Amateurs

The ARRL Board of Directors in annual meeting after full examination of national and divisional polls of opinion and deliberation on frequency requirements, requested FCC to consider the following recommendations for regulatory changes. 1 Fifty kc extension of 75 meter US phone. 2 Making permanent provisions authorizing NFM in the lower 50 kc segments of the 75 and 20 meter phone bands. 3 Modifying the 50 mc band provisions to assign first 100 kc of band to A1, to permit NFM wherever A3 is used and AØ duplex above 51 mc. 4 To require NEW applicants for class A license to receive a code examination at 16 wpm, as well as the usual technical exam to give this grade renewed meaning and respect. 5 To require new amateurs to limit their voice operation to frequencies above 50 mc for a period of one year at same time freely permitting cw work in all bands and with remaining class B bands to come after a years operation. The Board urges all amateurs using AM, FM, and PM below 14.4 mc to employ means to limit sidebands to three (3) kcs.

"ABOVE 50 MC"

By Ralph Barnett, W9UIA

The time for planning to get on 6 or 2 is over. Now is the time to get going--and fast. The high frequency bands are following their usual patterns so far this year. The ten meter band goes first dead for W6's then dead for DX, short skip stations begin to show up. Then watch the 6 meter band.

The last part of April we had an opening to W5's in Texas. Morning of May 8 heard a station in Wisc. Then May 9 the 6 meter band was open about noon to W1's and W2's. (We are still looking for Vermont up that way).

If the band acts like last year, we can expect a shorter time lapse between openings in the future. In June, July and August of last year, the six meter band was open quite often.

Interest in 6 and 2 is still on the increase. Four stations are now on 6 with another expected soon. A few fellows are planning to build 2 meter transceivers soon.

We have been listening quite a bit on 2 this last week and have heard the 5th harmonic of four local 10 meter stations Q5 S 2 to 8. Some of these fall outside the 2 meter ham band, others in aircraft and other bands. Since the FCC has gotten tough on harmonics with some of the boys, recent QST articles have given methods of reducing them. Our BC 645 is still gathering dust waiting for somebody to get going on 420 mc.

A "May Party" for VHF workers starts Sat May 22nd (2 PM local standard time) and ends at midnight local standard time Sun May 23rd. ARRL certificates to section winners. No cross band work; all operation above 50 mc. See details in May QST. See you all then.

W9EHU is rebuilding the RF and Osc sections of his Breating.

"STATION ACTIVITIES"

By Vic Chamberlin, W9BBC

W9AZU has had several nice QSO's with the Hallicrafters expedition. W4LLR has just returned from a trip to Wash DC, and made 90 contacts, including XE1 and 2 KP4's. While in DC he worked W9MDX with good signal strength..W9FON/4 has a new rig on 10 phone but is having speech trouble..W9GWL (Griffin's Mayor) is moving to the farm and is still planning to put up that 8JK for 75 phone.. Power house Casey, W9KBA is still carrying his eggs from the Chicken house via a wheel barrel(he's the man who invented the chicken you know) he's slipping tho, only had to replace 10 antenna coils for the BCI's this month..W9JEU is still playing golf...W9KMI is building new rig..W9RDJ is building new 3 element beam..anyone seen W9GCR lately??..Why is W9MRR worried after QSO with that W5?.. W9MLL has a new mobile rig and new stainless steel antenna for it..W9UNI runs 650 watts on 10-75 meters..When are you coming to a meeting John?..W9UNT and W9DGA have new Kaizers..Earl was heard testing new low power rig, R7 out here Earl.Are you going to put it in your car?..W9AMZ is off air moving rig across the room.W9WBW got his WAC and 3 element beam.. W9FAK is doing good with his DX. W9PNE is the DX man from his parts with 44 countries worked.. PNE is also working on a six mtr beam, will work in the coming VHF contest..W9EHL has not been on lately..John has been in the Hospital, speedy recovery, John,... W9ZHX is moving to new location. W9BBC had contact with W1HPR one of the Hq gang..Vic told of our Society's activities..New Ham in town W9DDV, runs 90 watts on 10 fone..W9NVN the college station has new beam rotator..following taken Class A exams W4PKX, W4JVB, W4LUB and W4ERH..W9QLW building new control box..W9GFO on Vacation..W9BAX on 40 cw..W9UIA has 32 states on 50 mc.W9AIN on 80cw.

"EMERGENCY"

By Harold McClellan, W9WNM
State Emergency Coordinator

Your local EC is Charles Long W9AZU. He will handle all matters in connection with AEC. Please give him your cooperation. Let's be ready if disaster overtakes us.

I urge each and every one of you to operate in the coming ARRL Field Day.

Next month, a complete description of the Indiana Emergency organization will be outlined.

"TEN METER FORECAST FOR JUNE"

By Neff Cox, Jr., W9MDX.

From about 14:00 GCT until about 00:00GCT communication with the Caribbean area and Central America will be the most reliable. Sporadic openings into South America will occur from time to time during the opening. New Zealand may show up within the last 3 hours of the opening. Sporadic E may be expected during various times of the day.

Starting with May and continuing thru September 1948, the maximum usable frequency will be below 30 mc at all times of the day over paths at approximately 40 degrees North Latitude. Evansville is at 38 degrees North.

FCC has cancelled order 132 and 132A, restoring Secs 12.92 and 12.93 of our regulations. The effect is to abolish a requirement for notifying the District FCC Engineer when operating portable above 25 mc...and to establish that all amateurs moving permanent location APPLY IMMEDIATELY for modification and observe Secs 12.93A and C signing the portable indicator after their calls. Portable work on any frequency below 25 mc must of course follow FCC notification as always.

Your articles and news items for TS should be in by the tenth.

"NEXT MEETING"

T I M E

7:30 Central Standard Time
or
8:30 Central Daylight Savings Time

D A T E

28 May 1948

P L A C E

City Court Room, Evansville
Police Station, second floor.

P R O G R A M

Mr. Phillip Hatfield, W9GFS, of Engineering Services, Inc., a Technical Editor of TS, will talk on "Simple Portable Equipment". Mr Hatfield has worked in every ARRL Field Day since it was originated. Sample equipment will be on display for your inspection.

BRING YOUR FRIENDS

Hams using "10" should check their 4th and other harmonics, and insure full suppression of such in accord with Sec. 12.133. The FCC has had complaints that jamming the Airways Navigational channel (116.10 mc) has occurred from 29025 kc. 'phone transmissions. Since this is a joint military, airline, CAA channel, FCC urges all amateurs to refrain from any operating near 29025 kc until their equipment has had a most rigid check, and all steps taken to insure no interference to other VHF services can result.

The first 6-meter contact between South America and the Hawaiian Islands was made 12 Mar 8 pm EST when KH6PP worked LU9EV. Next day KH6PP worked CX3AA, then five W6's and 6 more LU's. Florida W4's have worked OA4AE OA4BG and LU7WA. When is W9UIA, Ralph going to work some good DX?

"L/C RATIO"

By John F Clemens, W9ERN.

The proper choice of LC ratio is of importance in many ham applications. Some confusion often arises in choosing the LC ratio to meet a specific need. For instance, the ARRL Handbook states that in a transmitter the tank circuit Q is proportional to the tank capacity. At the same time, many of us have noticed that the gain and selectivity of a receiver is often highest at the low capacity end of the dial, indicating high tuned circuit Q. This apparent contradiction may be understood by referring to the theory of parallel tuned circuits.

The impedance across a parallel tuned circuit at resonance is $Z = X_L Q = L/Cr$ where r is the resistance in series with the coil. Suppose that the tuned circuit is connected to the grid of a class A amplifier such as a receiver r.f. stage. Up to moderate frequencies, say 30 mc., such a connection causes practically zero resistive loading of the tuned circuit. The graph of Z versus frequency for the input circuit is therefore the same as the graph of the tuned circuit alone. If the LC ration is increased, we will increase L and r in the same proportion and decrease C. As a result, Z will be increased resulting in greater gain and selectivity.

The other important case occurs when a second resistance, R, shunts the tuned circuit. This is the case in a class C r.f. amplifier or in a broad-band I.F. amplifier which has resistors shunting the tuned circuits to broaden the response. If R is small compared to the resonant Z of the tuned circuit the resulting impedance due to Z and R in parallel will depend more on the magnitude of R than Z for a band of frequencies near the resonant frequency of the tuned circuit. If we desire to sharpen the response of

the tuned circuit (raise the effective Q) we can increase the value of R or decrease the LC ratio. If the LC ratio is decreased, the resonant Z of the tuned circuit will be reduced and when Z becomes lower in magnitude than R, the impedance function of the combination will be controlled primarily by the coil and condenser. The frequency response curve will therefore tend to follow the curve of the coil and condenser alone and be little altered by changes in R. This is the basis for the high-C tanks used in most VFO's.

It must be borne in mind that high Q is not always desirable. In a transmitter tank circuit, the tank efficiency is

$$\%E = [(Q_u - Q_l) / Q_u] 100$$

where Q_u is the unloaded Q and Q_l is operating Q with the load coupled. To avoid poor tank efficiencies it behooves us, therefore to first of all use good coils and condensers and insulation in our tank circuits and then couple the load tightly enough to reduce the loaded Q to the smallest tolerable value.

The limiting factor is the possibility of radiating harmonics and the Handbook recommends the familiar figure of 12 as a good value. The operating Q may be often reduced to as low as 5, however, with a consequent increase in tank efficiency, if the antenna has poor harmonic radiating properties.

With the UN amateur station K2UN, due on the air soon the transmissions addressed to amateurs that originated with the UN will be discontinued from WIAW. The plan of operation for the new K2UN will be passed along to amateurs as soon as announced from Lake Success, by the UN.

"SWITCH TO SAFETY"

"TEN METER MOBILE"

By Neff Cox, Jr., W9MDX.

Since the ten meter band offers good results with low power and the PE 103 dynamotors available at low cost, the feasibility of mobile operation is readily apparent. There are several in operation now, on ten meters in this area, but there is room for a lot more.

The best results in this area have been obtained by mobile W4LLR of Henderson, Ky., who on a recent trip to Washington DC rolled up 92 contacts including an XE and two KP4's. At least a third of those contacts can be attributed to the use of the dash controlled VFO which makes the unit extremely versatile. The local ground wave "solid coverage" is around 20 miles and can extended to about 30 miles by careful listening. Mobile contacts are very satisfactory and W4LLR has had solid contact with W9HAB between the Owensboro bridge and the Evansville-Henderson bridge.

In a night test with W9KMI and W9ANG contact was made between their mobile units and W9MDX while Kenny and Charlie were parked on high ground at Mt Carmel, Illinois.

Anyone interested in mobile operation can get a wealth of information from W4LLR, W9ANG, W9KMI, and W9MLL or anyone who has had experience with mobile units. Remember this tho--- half-way measures do not give results where mobile operation is concerned.

W9CVN has rebuilt power supply for his BC 459 A on one chassis. Jim now works for the Telephone Co. Jim also go his TP first.

"Humpty" Campbell will write a "Trading Post" column for TS. Give him all information on sale or trade items. He also has a 50 foot pole in his back yard.

"HOWS YOUR DX?"

By Earle Cartwright, W9QLW

Twenty meter DX has been spotty this past month. Usually when the band is open it means the W6's and W7's are like locals which means "tuff sledin". But if you can squeeze in between the W6's CQing DX you can find a few new ones hanging around. Some of the more faithful are VR5PL around 14,010; RV2/F08 14,090; ZD1LQ 14,028; W0OZW/KS6 14,130; OX3BC 14,105. The usual times are from 11pm on.

Would also like to hear from any of the gang that are working rare ones on other bands than 20. Any DX on 80, 40, or 10?

W9HCF up at Newburg and W9PNE from Mt Carmel came up with their total countries worked. Any more of you DX hounds got your country list handy? How about getting in the column? Even if you are not a confirmed DX'er, I know lot of you fellows that chew the rag on ten, run across DX now and then, so how about your total, doesn't matter how many, ten or a hundred, send it in.

W9QLW and W9DGA are hot on the trail of ZD1LQ and RV2/F08, who incidently is in the Society Islands, near the Cook Islands and is a " R A R E " one.

W9DGA came up with W0OZW/KS6 KM6AH, and HP1BR for three new countries; besides FA8JO, OA4CJ, PA0ZM, and the usual VK's and ZL's. W9QLW added HP1BR and W0OZW/KS6 for two new countries.

Here is the totals for May:

W9GFO	78
W9QLW	76
W9UIA	59
W9DGA	59
W9EHU	55
W9WNM	48
W9PNE	44
W9HQF	31

Get all your DX reports to me by the tenth of each month. Send your list today.